



## Science Academies' Refresher Course on Known to Unknown Techniques in Biology

at

PG and Research Department of Botany, St Joseph's College (Autonomous), Tiruchirappalli  
1–15 November 2018

*Sponsored and supported by*  
**Indian Academy of Sciences, Bengaluru**  
**Indian National Science Academy, New Delhi**  
**The National Academy of Sciences, India, Allahabad**

A refresher course on 'Known to Unknown Techniques in Biology' will be held at PG and Research Department of Botany, St Joseph's College, Tiruchirappalli, Tamil Nadu for two weeks from 1 to 15 November 2018. The main aim of the Refresher Course is to improvize on teaching methodologies and also get familiar with basics to advanced laboratory techniques in Biology. The contents of this course have been designed with the objective of introducing biology teachers to concepts and experiments pertaining to 'Known to Unknown Techniques in Biology' which are essential for a student who is pursuing studies in any branch of biology today. The practical module of the course will start with isolation, microscopic observation and other experimentation on Mycorrhizae. This will be followed by molecular biology, where participants will gain experience in various Biotechnology tools for conservation, genetic resource and biodiversity. Gene transfer in bacteria by transformation, PCR and restriction digestion can also be handled. The hands-on experiments would be accompanied by special lectures by eminent scientists from these fields.

The UGC has notified (F-3/1-2009) that teachers in Universities and Colleges attending two-week Refresher Courses are entitled to be considered for promotion.

Applications are invited from teachers with experience in teaching postgraduate courses in Life Sciences. Applications from highly motivated Research Scholars will also be considered. Up to 45 applications will be considered. Teachers who wish to participate in the refresher course may apply through proper channel with the following details: name, date of birth, gender, e-mail, official and residential addresses, telephone numbers, academic qualifications, courses taught, affiliation, positions held and tenure. It is also essential to submit a brief statement (between 250 and 500 words) as to why they think the Course will help to improve their classroom teaching of Life Science. There will be NO application fee/registration fee.

Applications should be submitted ONLINE by clicking the following link:

<http://web-japps.ias.ac.in:8080/Refreshcourse/BSJP.jsp>

A print copy of the application must also be sent by speed post forwarded by the head of the institution. It should reach **Dr T Francis Xavier**, Coordinator, Science Academies' Refresher Course on 'Known to Unknown Techniques in Biology', PG and Research Department of Botany, St Joseph's College, Tiruchirappalli 620 002, Tamil Nadu **on or before 8 October 2018**. Outstation participants will be provided local hospitality and round trip bus/train (three-tier AC) fare by the shortest route as per the guidelines of Academy.

**Course Director: Dr D J Bagyaraj**, INSA Honorary Scientist, Centre for Natural Biological Resources and Community Development (CNBRCD), Bengaluru.

**Course Coordinator: Dr T Francis Xavier**, DST-SERB Young Scientist, Assistant Professor, PG and Research Department of Botany, St Joseph's College, Tiruchirappalli 620 002, Tamil Nadu (e-mail: mycofrancis@yahoo.co.in; Mobile: +91-99440 73773).

Last date for receipt of applications: **8 October 2018**

Selected participants will be informed on **10 October 2018**